



Formal Methods

Code 588/James Rash



Goals, Objectives, Benefits

- Develop mathematically sound V&V techniques
- Broad range of applicability
- Transfer technology “in”
- Support mission personnel and systems developers



Approach

- Build on 5+ years of technique analysis & development
- Pursue tool development based on patent-pending technologies
- Partner with mission projects
- Collaborators: Mike Hinchey, Jim Rash, Chris Rouff/SAIC, Denis Gracanin/VaTech, John Erickson/UT Austin



Results, Status, Next Steps

- Prototype tool enhancements
- Discussions with HRSM and developer of POLAR/ACE automated ground control system. Also ANTS mission.
- Additional technology/tool development based on in-house innovation
- Workshops
- Publish numerous papers/tech reports